

Special Purpose Waterproofing

Areas of Application:

BOTAMENT® MD 28 is a flexible, seamless waterproofing compound in combination with tile covering for strained areas like swimming pools, pool decks, balconies, terraces, laboratories, hotel and hospital kitchens as well as generally wet areas such as toilets, bathrooms, etc. It is also suitable as waterproofing for tile-on-tile refurbishment.

Properties:

BOTAMENT® MD 28 is a two-component, crack-bridging, cementitious waterproofing compound. It meets the requirements of stress class A1, A2, B in accordance to German DIBt as well as for classes 0, A01, A02, B0 in line with the German ZDB (Building Authorities). BOTAMENT® MD 28 attains excellent adhesion strength onto mineral substrates as well as in combination with the tile adhesive BOTAMENT® M 21 Premium.

BOTAMENT® MD 28 is the waterproofing for the BOTAMENT® Swimming Pool System.

Suitable Substrates:

BOTAMENT® MD 28 adheres to almost all kinds of mineral substrates such as concrete, render, screed, brickwork, plaster boards, light-weight blocks, etc. In addition it provides bonding onto existing tile layers for refurbishment purpose when applied as scratch coat.

Substrate requirements:

The substrate must be clean, frost-free, solid, stable, free of any loose particles like dust and free of grease, oil, paint, cement laitance, tar, bitumen or release agents which might affect the adhesion. Crack-lines need to be filled with epoxy BOTACEM® A 60.

Generally the substrate has to be levelled and smoothed by plaster and screed prior to waterproofing. Porous and cavity-rich substrates require a scratch/filling-coat for levelling purpose with BOTAMENT® M 21 Premium prior to application of waterproofing.

Material which is already setting must not be mixed again or diluted as this will affect the final properties.

Substrate Preparation:

The surface must be dry at the time of application. For all absorbent substrates (cement render, screed, concrete, brickwork, etc.) the usage of primer BOTAMENT® D 11 prior to application of BOTAMENT® MD 28 is mandatory. The primer reduces the absorbency, reinforces the substrate and optimizes adhesion.

Mixing:

BOTAMENT® MD 28 is supplied in two components (25 kg powder, 10 kg liquid) at the right mixing ratio. To maintain the correct ratio always mix the entire containers to avoid changes in material properties. Add the powder to the liquid while mixing to achieve a lump-free mix. Use a slow speed drill mixer (400 – 500 rpm) and mix for a minimum of 3 minutes to produce a homogeneous consistency. After a maturity time of 5 minutes mix the material again for 1 minute to attain long workability. Material which is already setting must not be mixed again or diluted as this will affect the final properties.

Application:

The application area should be shaded and protected from strong wind for at least 6 hours. The working time of the mixture is approx. 45 minutes. BOTAMENT® MD 28 can be applied by trowel, brush or by spraying device. The application must be in two layers crosswise. The first layer must be applied as a scratch coat to achieve good adhesion onto the substrate. The applied area must be protected from rain for 3 hours.

At corner areas and working joint apply the joint tape BOTAMENT® SB 78 by embedding it into the first layer while still wet.

Drying time:

Depending on the temperature, humidity and ventilation on site the drying time of the first layer is approx. 6 hours. The second layer requires a drying period of at least 24 hours prior to tiling. After material has dried completely the tiles can be installed directly onto BOTAMENT® MD 28 by using the flexible power adhesive BOTAMENT® M 21 Premium.

The drying times are approximate and will be affected by ambient conditions. High temperature and low humidity quicken the drying process whereas low temperature and high humidity retards the drying process.

BOTAMENT® MD 28

- 2-component cementitious system
- especially for swimming pools
- crack-bridging
- open to water vapour diffusion
- prevent carbonation and efflorescence
- certified for potable drinking water
- in accordance to EN standards

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MC Bauchemie (Malaysia) Sdn Bhd
Lot S113, 2nd Floor, Centrepoint, No.3, Lebuh Bandar Utama,
Bandar Utama, 47800 Petaling Jaya, Selangor, Malaysia.
Phone: +603 7728 1233
Fax: +603 7728 6833
enquiry@mc-bauchemie.com.my

BOTAMENT®

MD 28

Material base:

Special-Cement-Polymer combination

Colour:

Grey

Solvents:

None

pH-Value:

10

Wet Density:

~1.6 kg/lit

Mixing ratio:

Comp. A : B = 5 : 2

Potlife:

~ 45 min at 25°C

Consumption:

~ 1.6 kg/m² per layer

~ 3.2 kg/m² for two layers

Fresh layer thickness:

max. 2 mm per layer,

max. 4 mm total layer thickness

Application conditions:

+8°C to +30°C, max. 80% r.h.

Drying time of first layer:

~ 6 hours

Drying time of second layer prior to fixing of tiles:

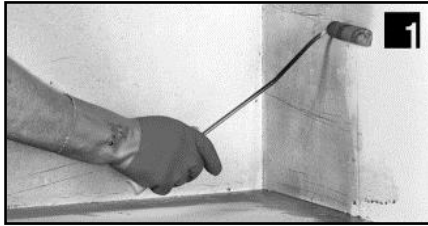
~ 24 hours

Cleaning:

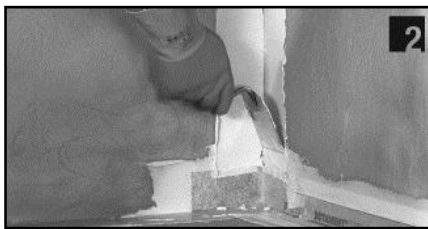
With water while material is still wet.

Mechanical or solvents when material has dried.

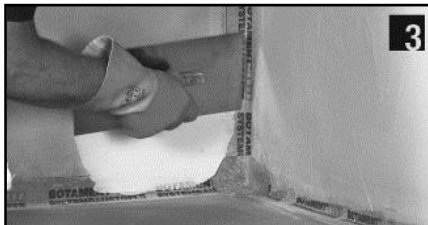
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Application Sequence:**Priming The Substrate**

Use a brush or roller to apply primer BOTAMENT® D 11 to all absorbent mineral substrates. Primer must be dried completely before applying the waterproofing.

**Apply Joint Tape In Corners**

Use joint tape BOTAMENT® SB 78 in corner areas or apply angle fillet to avoid sharp corner. The joint tape is embedded firmly into the first layer of BOTAMENT® MD 28 while still fresh.

**Apply Waterproofing**

Apply BOTAMENT® MD 28 in two layers crosswise using a trowel.

General Remarks:

Protect BOTAMENT® MD 28 against moisture until the material is completely dry.

Avoid heavy mechanical stress that may damage the waterproofing.

The datasheet of products used in conjunction with BOTAMENT® MD 28 must be followed.

All technical data stated in this datasheet are based on test under laboratory conditions. Actually achieved data may vary due to ambient and site conditions.

The Material Safety Data Sheet is available on request.

Packaging:

35 kg set (25 kg powder, 10 kg liquid)

Storage:

Keep cool and dry.

Shelf life is **9 months** if kept in original, unopened and undamaged sealed bags.

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